

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"5822553".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 07:45
S2	6	("6131121" "5872982" "5822553").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/17 11:08
S3	13	08/719554	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/17 13:55
S4	1	10/264819	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/17 13:55
S5	1	10/634393	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 07:56
S6	18	("08/883980" "09/730011" "09/11 4664")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 08:47
S7	383	((LSP or LPC or (formant adj frequenc\$3) or (vocal adj tract adj resonant) or VTR) with (distance or space or gap or seperation) with (measur\$3 or calculat\$3 or determin\$3 or comput\$4 or assess\$3 or evaluat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 08:59

## EAST Search History

S8	1	S7 and ((LSP or LPC or (formant adj frequenc\$3) or (vocal adj tract adj resonant) or VTR) with (close or closeness) with (mov\$3 or adjust\$3 or shift\$3 or chang\$3 or correct\$3 or relocat\$3) with (distance or space or gap or seperation))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 09:00
S9	1	S7 and ((LSP or LPC or (formant adj frequenc\$3) or (vocal adj tract adj resonant) or VTR) with (close or closeness) with (mov\$3 or adjust\$3 or shift\$3 or chang\$3 or correct\$3 or relocat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 09:00
S10	20	S7 and ((LSP or LPC or (formant adj frequenc\$3) or (vocal adj tract adj resonant) or VTR) with (close or closeness))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 09:00
S11	19	S10 not S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 09:01

- File 9:Business & Industry(R) Jul/1994-2007/Sep 11  
(c) 2007 The Gale Group
- File 15:ABI/Inform(R) 1971-2007/Sep 17  
(c) 2007 ProQuest Info&Learning
- File 16:Gale Group PROMT(R) 1990-2007/Sep 17  
(c) 2007 The Gale Group
- File 20:Dialog Global Reporter 1997-2007/Sep 19  
(c) 2007 Dialog
- File 47:Gale Group Magazine DB(TM) 1959-2007/Sep 05  
(c) 2007 The Gale group
- File 75:TGG Management Contents(R) 86-2007/Sep W1  
(c) 2007 The Gale Group
- File 80:TGG Aerospace/Def.Mkts(R) 1982-2007/Sep 11  
(c) 2007 The Gale Group
- File 88:Gale Group Business A.R.T.S. 1976-2007/Sep 11  
(c) 2007 The Gale Group
- File 98:General Sci Abs 1984-2007/Sep  
(c) 2007 The HW Wilson Co.
- File 112:UBM Industry News 1998-2004/Jan 27  
(c) 2004 United Business Media
- File 141:Readers Guide 1983-2007/Jul  
(c) 2007 The HW Wilson Co
- File 148:Gale Group Trade & Industry DB 1976-2007/Sep 12  
(c) 2007 The Gale Group
- File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group
- File 275:Gale Group Computer DB(TM) 1983-2007/Sep 13  
(c) 2007 The Gale Group
- File 264:DIALOG Defense Newsletters 1989-2007/Sep 18  
(c) 2007 Dialog
- File 484:Periodical Abs Plustext 1986-2007/Sep W2  
(c) 2007 ProQuest
- File 553:Wilson Bus. Abs. 1982-2007/Aug  
(c) 2007 The HW Wilson Co
- File 570:Gale Group MARS(R) 1984-2007/Sep 11  
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- File 620:EIU:Viewswire 2007/Sep 03  
(c) 2007 Economist Intelligence Unit
- File 613:PR Newswire 1999-2007/Sep 19  
(c) 2007 PR Newswire Association Inc
- File 621:Gale Group New Prod.Annou.(R) 1985-2007/Sep 12  
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- File 624:McGraw-Hill Publications 1985-2007/Sep 17  
(c) 2007 McGraw-Hill Co. Inc
- File 634:San Jose Mercury Jun 1985-2007/Sep 18  
(c) 2007 San Jose Mercury News
- File 635:Business Dateline(R) 1985-2007/Sep 19  
(c) 2007 ProQuest Info&Learning
- File 636:Gale Group Newsletter DB(TM) 1987-2007/Sep 17  
(c) 2007 The Gale Group
- File 647:CMP Computer Fulltext 1988-2007/Sep W4  
(c) 2007 CMP Media, LLC
- File 696:DIALOG Telecom. Newsletters 1995-2007/Sep 19  
(c) 2007 Dialog

File 674:Computer News Fulltext 1989-2006/Sep W1

(c) 2006 IDG Communications

File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire

File 813:PR Newswire 1987-1999/Apr 30

(c) 1999 PR Newswire Association Inc

Set Items Description

S1 28484 FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP  
OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()-  
RESONANT? ? OR VTR  
S2 2256446 DISTANCE? ? OR SPACING? ?  
S3 149357 S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M-  
IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL)  
S4 495266 THRESHOLD? ?  
S5 221734 (S2 OR S3)(7N)(ADJUST? OR REDUC? OR MINIMIZ???? OR MINIMIS-  
??? OR DECREAS? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU-  
TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO-  
NVERT? OR CORRECT? OR MANIPULAT?)  
S6 1515803 SPEECH? ?  
S7 271 AU=(SAITO, M? OR SAITO M?)  
S8 0 S7 AND S1  
S9 30 S1(S)S3  
S10 9 S9(S)S5  
S11 7 S10 NOT PY=>2003  
S12 7 RD (unique items)  
S13 1 S12 NOT (CHILE?? OR WELLES)  
S14 455 S1(S)S6  
S15 0 S14(S)S5

**13/3,K/1 (Item 1 from file: 88)**

DIALOG(R)File 88:Gale Group Business A.R.T.S.

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04026100 SUPPLIER NUMBER: 18631965

**A paired comparison method for interval scaling.**

Turner, Aric D.

Human Factors, v38, n2, p362(13)

June, 1996

ISSN: 0018-7208 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 6124 LINE COUNT: 00488

... a result of the extended distances between the ratio scale values  
there. In addition, the **reduced** distances between the scale values at  
the **lower** end of the rank order increase Type II errors when comparing  
scale values at that...

...linear regression, the result would be very close to the scale values  
produced by the **LPC** method (ILLUSTRATION FOR FIGURE 12 OMITTED). Because  
the **LPC** method can be manipulated by addition, subtraction,  
multiplication, and division, the **LPC** analytic method can produce  
interval scale values for all exponential and interval data.

It was...

?

File 2:INSPEC 1898-2007/Sep W2  
(c) 2007 Institution of Electrical Engineers  
File 6:NTIS 1964-2007/Sep W3  
(c) 2007 NTIS, Intl Cpyrht All Rights Res  
File 8:Ei Compendex(R) 1884-2007/Sep W2  
(c) 2007 Elsevier Eng. Info. Inc.  
File 34:SciSearch(R) Cited Ref Sci 1990-2007/Sep W4  
(c) 2007 The Thomson Corp  
File 35:Dissertation Abs Online 1861-2007/Jul  
(c) 2007 ProQuest Info&Learning  
File 56:Computer and Information Systems Abstracts 1966-2007/Aug  
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File 57:Electronics & Communications Abstracts 1966-2007/Jul  
(c) 2007 CSA.  
File 65:Inside Conferences 1993-2007/Sep 04  
(c) 2007 BLDSC all rts. reserv.  
File 95:TEME-Technology & Management 1989-2007/Sep W3  
(c) 2007 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2007/Aug  
(c) 2007 The HW Wilson Co.  
File 144:Pascal 1973-2007/Sep W1  
(c) 2007 INIST/CNRS  
File 239:Mathsci 1940-2007/Oct  
(c) 2007 American Mathematical Society  
File 256:TecInfoSource 82-2007/Apr  
(c) 2007 Info.Sources Inc  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 2006 The Thomson Corp  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning  
File 483:Newspaper Abs Daily 1986-2007/Sep 16  
(c) 2007 ProQuest Info&Learning

Set	Items Description
S1	21174 FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()- RESONANT? ? OR VTR
S2	1336281 DISTANCE? ? OR SPACING? ?
S3	140031 S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M- IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL)
S4	681372 THRESHOLD? ?
S5	12842 S3(7N)(ADJUST? OR REDUC? OR MINIMIZ???? OR MINIMIS- ??? OR DECREAS? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU- TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO- NVERT? OR CORRECT? OR MANIPULAT?)
S6	357902 SPEECH? ?
S7	13784 AU=(SAITO, M? OR SAITO M?)
S8	7 S7 AND S1
S9	0 S8 AND (S3 OR S5)
S10	0 S8 AND S2
S11	6 S1 AND S5
S12	4 S11 NOT PY=>2003
S13	3 RD (unique items)
S14	75 S1 AND S3

S15 3 S14 AND S4  
S16 3 S15 NOT S13  
S17 1 S16 NOT PY=>2003  
S18 51 S14 AND S6  
S19 7 S18 AND (AJUST? OR REDUC? OR CHANG?)  
S20 5 S19 NOT (S17 OR S13)  
S21 3 S20 NOT PY=>2003  
S22 3 RD (unique items)

**13/9,K/1 (Item 1 from file: 2)**

DIALOG(R)File 2:INSPEC

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05973297 INSPEC Abstract Number: B9507-6130-080, C9507-1250C-053

**Title: Closed-phase glottal inverse filtering by means of a compound auto-regressive model**

Author(s): Schoentgen, J.; Azami, Z.

Author Affiliation: Inst. of Phonetics, Univ. Libre de Bruxelles, Belgium  
p.209-12

Publisher: IDIAP, Martigny, Switzerland

Publication Date: 1994 Country of Publication: Switzerland xii+238  
pp.

Conference Title: Proceedings of Workshop on Automatic Speaker  
Recognition, Identification and Verification

Conference Date: 5-7 April 1994 Conference Location: Martigny,  
Switzerland

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T); Experimental (X)

Abstract: The article concerns techniques for obtaining, representing and  
comparing voice source signals. Closed-phase **formant frequencies** and  
bandwidths were estimated by fitting two linear auto-regressive models to a  
glottal cycle (the first to the open, the second to the closed phase). The  
moment of switching from one sub-model to the next was automatically  
determined by minimizing the overall modelling error. The voice source  
signal was obtained by inverse filtering speech by means of the  
closed-phase formants. Its spectrum was represented by a nonlinear  
zero-memory Volterra model. Two source signals were compared by means of  
their **minimal spectral distance** which was obtained by **adjusting** the  
nonlinear gain of the Volterra model. (6 Refs)

Subfile: B C

Descriptors: acoustic analysis; autoregressive processes; filtering  
theory; frequency estimation; signal representation; speaker recognition;  
speech processing

Identifiers: closed-phase glottal inverse filtering; compound  
auto-regressive model; voice source signals; closed-phase **formant**  
**frequencies**; closed-phase formant bandwidths; linear auto-regressive  
models; sub-model; overall modelling error; inverse filtering; nonlinear  
zero-memory Volterra model; minimal spectral distance; nonlinear gain;  
speaker recognition

Class Codes: B6130 (Speech analysis and processing techniques); C1250C (Speech  
recognition); C5260S (Speech processing techniques)

Copyright 1995, IEE

Abstract: The article concerns techniques for obtaining, representing and  
comparing voice source signals. Closed-phase **formant frequencies** and  
bandwidths were estimated by fitting two linear auto-regressive models to a

File 348:EUROPEAN PATENTS 1978-2007/ 200737

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File 349:PCT FULLTEXT 1979-2007/UB=20070913UT=20070906

(c) 2007 WIPO/Thomson

Set	Items Description
S1	12549 FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()- RESONANT? ? OR VTR
S2	710935 DISTANCE? ? OR SPACING? ?
S3	156738 S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M- IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL)
S4	191098 THRESHOLD? ?
S5	172129 (S2 OR S3)(7N)(ADJUST? OR REDUC? OR MINIMIZ???? OR MINIMIS- ??? OR DECREAS? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU- TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO- NVERT? OR CORRECT? OR MANIPULAT?)
S6	41666 SPEECH? ?
S7	1134 AU=(SAITO, M? OR SAITO M?)
S8	6 S7 AND S1
S9	0 S8(S)(S3 OR S5)
S10	167 S1(S)S3
S11	29 S10(S)S5
S12	15 S11(S)S6
S13	13 S12 NOT AD=20020929:20070919/PR
S14	75 S10(S)S6
S15	3 S14(S)S4
S16	3 S15 NOT S13
S17	2 S16 NOT AD=20020929:20070919/PR
S18	18 S14(15N)(ADJUST? OR REDUC? OR MINIMIZ? OR MINIMIS? OR DECR- EAS? OR SHORT?)
S19	12 S18 NOT (S17 OR S13)
S20	9 S19 NOT AD=20020929:20070919/PR
S21	20 S1(10N)S5
S22	17 S21 NOT (S20 OR S13 OR S17)
S23	12 S22 NOT AD=20020929:20070919/PR
S24	8 S23 NOT (PRINTER OR CASSETTE OR LASER)

**13/3,K/1 (Item 1 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS

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01267219

**Method and apparatus for dynamic segmentation of a low bit rate digital  
voice message**

**Verfahren und Vorrichtung zur dynamischen Sprachsegmentierung einer mit  
niedriger Bitrate kodierten Sprachnachricht**

**Procede et dispositif pour la segmentation dynamique d'un message vocal  
code a bas debit**

**PATENT ASSIGNEE:**

MOTOROLA, INC., (205770), 1303 East Algonquin Road, Schaumburg, IL 60196,  
(US), (Applicant designated States: all)

**INVENTOR:**

Satyamurti, Sunil, 6845 Blue Bay Circle, Lake Worth, FL 33467, (US)

Finlon, Kenneth, 15653 Bent Creek Road, Wellington, FL 33414, (US)

Huang, Jian-Cheng, 7074 Catalina Isle, Lake Worth, FL 33467, (US)

File 344:Chinese Patents Abs Jan 1985-2006/Jan

(c) 2006 European Patent Office

File 347:JAPIO Dec 1976-2007/Mar(Updated 070809)

(c) 2007 JPO & JAPIO

File 350:Derwent WPIX 1963-2007/UD=200757

(c) 2007 The Thomson Corporation

Set Items Description

S1 109725 FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP  
OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()-  
RESONANT? ? OR VTR  
S2 849741 DISTANCE? ? OR SPACING? ?  
S3 114335 S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M-  
IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL)  
S4 225271 THRESHOLD? ?  
S5 150668 (S2 OR S3)(7N)(ADJUST? OR REDUC? OR MINIMIZ???? OR MINIMIS-  
??? OR DECREAS? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU-  
TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO-  
NVERT? OR CORRECT? OR MANIPULAT?)  
S6 86216 SPEECH? ?  
S7 31007 AU=(SAITO, M? OR SAITO M?)  
S8 303 S7 AND S1  
S9 7 S8 AND S3  
S10 7 S9 NOT AD=20020929:20070919/PR  
S11 306 S1 AND S3  
S12 61 S11 AND S5  
S13 2 S12 AND S4  
S14 2 S13 NOT S10  
S15 2 S14 NOT AD=20020929:20070919/PR  
S16 9 S12 AND S6  
S17 8 S16 NOT (S15 OR S10)  
S18 7 S17 NOT AD=20020929:20070919/PR  
S19 483 S1 AND S5  
S20 13 S19 AND S6  
S21 5 S20 NOT (S18 OR S15 OR S10)  
S22 3 S21 NOT AD=20020929:20070919/PR

10/3,K/1 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

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07973343 \*\*Image available\*\*

VOICE PROCESSING DEVICE AND MOBILE COMMUNICATION TERMINAL DEVICE

PUB. NO.: 2004-086102 [JP 2004086102 A]

PUBLISHED: March 18, 2004 (20040318)

INVENTOR(s): SAITO MUTSUMI

APPLICANT(s): FUJITSU LTD

APPL. NO.: 2002-250362 [JP 2002250362]

FILED: August 29, 2002 (20020829)

INVENTOR(s): SAITO MUTSUMI

ABSTRACT